

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/14525

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04M1/57 H04M3/436

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 370 235 B1 (HEINER JEFFREY N) 9 April 2002 (2002-04-09)	1-5, 7-11, 13-15, 17,19 6,12,16
Y	abstract; figure 1 column 1, line 25 - column 3, line 34	
Y	US 2002/067809 A1 (WON JOUNG-KYU) 6 June 2002 (2002-06-06) abstract paragraph '0012! - paragraph '0020!	6,12,16
A	WO 97/20423 A (BELL COMMUNICATIONS RES) 5 June 1997 (1997-06-05) the whole document	1-19
A	US 5 467 388 A (BROHAN LIAM P ET AL) 14 November 1995 (1995-11-14) the whole document	1-19

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the International search

9 July 2004

Date of mailing of the International search report

20/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Tillgren, M

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6370235	B1	09-04-2002	NONE		
US 2002067809	A1	06-06-2002	KR RU	2002044052 A 2221345 C2	14-06-2002 10-01-2004
WO 9720423	A	05-06-1997	WO US	9720423 A1 5930700 A	05-06-1997 27-07-1999
US 5467388	A	14-11-1995	NONE		